

GPS A

KPC Behavior

WL @ QTO TGO

DAY 16 MONTH APRIL YEAR 2009 OBSERVER KJSM BP Found: C FT FFT N Other _____

Time	Party Composition				Loc	F	SP	PT	MNK	BEH CODE
	AMM	AFF (Include estrous)	JMM (Juveniles and Infants)	JFF						
753										obs found chimps by calls at m110
										climbing into ANI.
800	ST ^{BB} KX ^{LK} TJ ^{YB}	WL ^{TG} QT	WCT ^{OV}	TS	M 10	✓	ANI	RF	MGB	
804										some one made vocal displays and buttress bungs others made waars and <u>pant saks</u> .
805										Some individual climbed into ANI at m18.
815	ST ^{BB} KX ^{LK} TJ ^{YB}	WL ^{TG} QT	WCT ^{OV}	TS	M 8	✓	ANI	RF	MGB	
818										LK made vocal displays and buttress bungs, others made waars.
823										LK also climbed into the feeding tree.
830	KX ^{BB} LK ST TJ ^{YB}	WL ^{TG}	WCT ^{OV}	TS	M 8	✓	ANI	RF	MGB	
845	KX ^{BB} LK ST TJ ^{YB}	WL ^{QT} TG	WCT ^{OV}	TS	11	✓	ANI	RF	∅	
900	KX ^{BB} LK ST TJ ^{YB}	WL ^{QT} TG	WCT ^{OV}	TS	11	✓	ANI	RF	∅	
911										WL @ coming out of the feeding tree.
913										WL making a day nest in CAE at 28 metres high.
915	KX ^{BB} LK ST TJ ^{YB}	WL ^{QT} TG	WCT ^{OV} TT	TS	M 8	✓	ANI	RF	∅	
930	KX ^{BB} LK ST TJ ^{YB}	WL ^{QT} TG	WCT ^{OV} TT	TS	11	✓	ANI	RF	∅	

AT 15-MINUTE INTERVALS: Party Composition, Location, Food, MNK ESTROUS: 1 = None, 2 = Partial, 3 = Full

BEHAVIOR CODES (List all that you see - See reference sheet for required data):

AP: Adult Play; CP: Copulation; CY: Carry; DR: Drink; FBK: Food bark; HCG: Hand-clasp groom; HNY: Honey;
 IGI: Intergroup interaction; LF: Leaf use; MAT: Attacked by monkeys; PIG: Pigs; PRED: Predation; PTG: Pant-grunt;
 RN: Rain; RD: Rain display; STK: Stick use; TLU: Tool use; UNF: Unusual food; Q: Other unusual events

KPC Behavior

DAY 16 MONTH APRIL YEAR 2009 OBSERVER KJ S MBP Found: C FT FFT N Other _____

Time	Party Composition				Loc	F	SP	PT	MNK	BEH CODE
	AMM	AFF (Include estrous)	JMM (Juveniles and Infants)	JFF						
945	BB KK STK TLU JB	WL OT TG	WC OV TT	TS	M/8	✓	ANI	RF	∅	
1000	BB KK STK TLU JB	TG OT WL	WC OV TT	TS	"	✓	ANI	RF	∅	
1005	BB KK LK ST JB TS	TG OT WL	WC OV TT	TS	"	✓	ANI	RF	∅	
1030	BB KK LK ST JB TS	TG OT WL	WC OV TT	TS	"	✓	ANI	RF	∅	
1045	BB KK LK ST JB TS	TG OT WL	WC OV TT	TS	"	✓	ANI	RF	∅	
1100	BB KK LK ST JB TS	TG OT WL	WC OV TT	TS	"	✓	ANI	RF	∅	
1102	LK left the feeding tree and made a day nest in CFE at 28 metres high.									
1108	WL coming out of the day nest and approached LK pant grunting then groomed him.									
1110	OT coming out of the feeding tree.									
1115	KK BB BLK LK ST	TG OT WL	WC OV TT	TS	M/8	✓	ANI	RF	∅	
1117	OT making a day nest in a <i>Acrocybus</i> of about 52 cm dbh at 30 metres high.									
1121	KK coming out of the feeding tree and approached WL who made pant grunts before him then KK groomed her.									
1124	WL grooming KK									
1126	KK grooming WL									

AT 15-MINUTE INTERVALS: Party Composition, Location, Food, MNK ESTROUS: 1 = None, 2 = Partial, 3 = Full

BEHAVIOR CODES (List all that you see - See reference sheet for required data):

- AP: Adult Play; CP: Copulation; CY: Carry; DR: Drink; FBK: Food bark; HCG: Hand-clasp groom; HNY: Honey; IGI: Intergroup interaction; LF: Leaf use; MAT: Attacked by monkeys; PIG: Pigs; PRED: Predation; PTG: Pant-grunt; RN: Rain; RD: Rain display; STK: Stick use; TLU: Tool use; UNF: Unusual food; Q: Other unusual events

KPC Behavior

DAY th 16 MONTH APRIL YEAR 2009 OBSERVER KJSM Found: FT FFT N Other _____

Time	Party Composition				Loc	F	SP	PT	MNK	BEH CODE
	AMM	AFF (Include estrous)	JMM (Juveniles and Infants)	JFF						
1128	WL grooming	KK								
1130	KKLK ST YB TJBB	TG AT WL	TTWV OV	TS	M 8	✓	ANI	RF	♂	
1132	KK made a day nest in the same tree with LK at 27 metres high -									
1105	KKLK ST YB TJBB	TG AT WL	TTWV OV	TS	M 8	✓	ANI	RF	♂	
1200	KKLK ST YB TJBB	TG AT WL	TTWV OV	TS	"	✓	ANI	RF	♂	
1208	Distant calls were heard from the north of K30 blue KK LK AT left their nest and made both waars and pant hoots. Others also left the feeding tree and came to the ground but LK TG family didn't come from ANI									
1211	KK made non vocal displays and buttress bungs others made waars then distant calls were heard from the north.									
1213	ST grooming	KK								
1211	chain groom KK → ST → YB									
1215	KKLK ST YB TJBB	TG AT WL	TTWV OV	TS	M 8	✓	ANI	RF	♂	
1218	ESEU NP and LK joined the party, no any calls made.									
1220	YB being groomed by ST									

AT 15-MINUTE INTERVALS: Party Composition, Location, Food, MNK ESTROUS: 1 = None, 2 = Partial, 3 = Full

BEHAVIOR CODES (List all that you see - See reference sheet for required data):

AP: Adult Play; CP: Copulation; CY: Carry; DR: Drink; FBK: Food bark; HCG: Hand-clasp groom; HNY: Honey;
 IGI: Intergroup interaction; LF: Leaf use; MAT: Attacked by monkeys; PIG: Pigs; PRED: Predation; PTG: Pant-grunt;
 RN: Rain; RD: Rain display; STK: Stick use; TLU: Tool use; UNF: Unusual food; Q: Other unusual events

KPC Behavior

DAY 16 MONTH APRIL YEAR 2009 OBSERVER KTSMBP Found: C FT FFT N Other _____

Time	Party Composition				Loc	F	SP	PT	MNK	BEH CODE
	AMM	AFF (Include estrous)	JMM (Juveniles and Infants)	JFF						
1222	ST	grooming	KK							
1225	chain	groom	OT → YB → ST → KK							
1226	RT	grooming	YB as KK grooms ST							
1228	KK	OT and ST	are all grooming YB							
1229	KK	grooming	ST as KK grooms ST							
1230	KK ^{BB} ST ^{IK} YB ^{ES}	WLT ^{IGLR}	WLT ^{IGLR}	TSNP ^{EU}	M/8	✓	ANI	RF	∅	
1231	KK, ST	and OT	are again grooming YB							
1232	ES	made non vocal displays and buttress bungs	others made pant hoots							
1236	chain	groom	OT → YB → ST → KK							
1239	chain	groom	OT → KK → ST → YB							
1240	YB	grooming	him self as KK grooms ST							
1244	OT	grooming	ST							
1245	KK ^{BB} ST ^{IK} YB ^{ES}	WLT ^{IGLR}	WLT ^{IGLR}	TSNP ^{EU}	M/8	✓	ANI	RF	∅	
1248	OT	grooming	YB							
1250	OT	grooming	ST							
1251	OT	grooming	YB							
1252	ST	grooming	him self							
1253	KK	coming down	from the feeding tree							

AT 15-MINUTE INTERVALS: Party Composition, Location, Food, MNK ESTROUS: 1 = None, 2 = Partial, 3 = Full

BEHAVIOR CODES (List all that you see - See reference sheet for required data):

- AP: Adult Play; CP: Copulation; CY: Carry; DR: Drink; FBK: Food bark; HCG: Hand-clasp groom; HNY: Honey;
- IGI: Intergroup interaction; LF: Leaf use; MAT: Attacked by monkeys; FIG: Pigs; PRED: Predation; PTG: Pant-grunt;
- RN: Rain; RD: Rain display; STK: Stick use; TLU: Tool use; UNF: Unusual food; Q: Other unusual events

KPC Behavior

DAY 16th MONTH APRIL YEAR 2009 OBSERVER KJ SM Found: FT FFT N Other _____

Time	Party Composition				Loc	F	SP	PT	MNK	BEH CODE
	AMM	AFF (Include estrous)	JMM (Juveniles and Infants)	JFF						
1254	KK being groomed by LK as				YB					grooms ST.
1255	chain groom				AT → KK → KK					
1256	KK grooming LK									
	LK grooming KK									
1257	chain groom				AT → LK → KK → ST → YB					
1258	Hand clasp mutual groom				KK ↔ KK ← AT					
	YB grooming ST as				WL grooms WL					
1259	mutual groom				KK ↔ LK ← AT	at tree				hand clasp.
1300	KK ^{KK} BB ST ES ^{YB} TS	1G AT WL	WCOV TTLO	NP EU TS	M S	✓	AN	RF	∅	
	LK grooming KK									
1301	LK grooming ST									
1300	LK approached AT who made				<u>pant grunts</u>					PTG
	before him, LK ignored.									
1306	ES EU IG TT TS and NP				leaving the feeding tree last.					
1310	LK grooming ST.									
1313	WL (WL) EU AT (AT) ^{KK} ATG TS TT and NP are									
	Feeding on UVA RF.									
1315	KK ST Y ^{YB} ES ST BB	1G AT WL	WCOV TTLO	NP EU TS	M S	✓	UVA	RF	∅	
1319	RB moved away being followed by BP.									

AT 15-MINUTE INTERVALS: Party Composition, Location, Food, MNK ESTROUS: 1 = None, 2 = Partial, 3 = Full

BEHAVIOR CODES (List all that you see - See reference sheet for required data):

- AP: Adult Play; CP: Copulation; CY: Carry; DR: Drink; FBK: Food bark; HCG: Hand-clasp groom; HNY: Honey;
- IGI: Intergroup interaction; LF: Leaf use; MAT: Attacked by monkeys; PIG: Pigs; PRED: Predation; PTG: Pant-grunt;
- RN: Rain; RD: Rain display; STK: Stick use; TLU: Tool use; UNF: Unusual food; Q: Other unusual events

KPC Behavior

DAY 16th MONTH APRIL YEAR 2009 OBSERVER KJSM Found: FT FFT N Other _____

Time	Party Composition				Loc	F	SP	PT	MNK	BEH CODE
	AMM	AFF (Include estrous)	JMM (Juveniles and Infants)	JFF						
1329										LK grooming KK as ST grooms him self.
1330	KK ST LK ^{YB} ES ^{TS}	WL ^{OT} TG ^{LR}	WEAV ^{TTLO}	NPEU ^{TS}	M/6	✓	UVA	RF	∅	
1345	KK ST LK ^{YB} ES ^{TS}	WL ^{OT} TG ^{LR}	WEAV ^{TTLO}	NPEU ^{TS}		✓	UVA	RF	∅	
1350										WL grooming her self as we plays alone by swinging on branches.
1351										OT grooming EU.
1400	KK ^{LK} ST ^{YB} ES ^{TS}	WL ^{OT} TG ^{LR}	WEAV ^{TTLO}	NPEU ^{TS}	M/6	✓	UVA	RF	∅	
1402										NP Self grooming
1405										ST grooming YB
1410										YB grooming ST
1415	KK ^{LK} ST ^{YB} ES ^{TS}	TG ^{OT} WL ^{LR}	WEAV ^{TTLO}	TS ^{NP} EU	M/6	✓	UVA	RF	∅	
1418										TT grooming TS as KK grooms him self.
1417										chain groom YB → ST → KK.
1419										EU coming down from UVA last.
1420										EU approached LK and presented her back LK groomed her.
1421										EU groomed LK.
1421										TG moved towards ST KK YB and ES <u>pant</u> <u>grunting</u> , ES approached him charged, TG presented before him, as ES was inspecting

AT 15-MINUTE INTERVALS: Party Composition, Location, Food, MNK ESTROUS: 1 = None, 2 = Partial, 3 = Full
 BEHAVIOR CODES (List all that you see - See reference sheet for required data):

- AP: Adult Play; CP: Copulation; CY: Carry; DR: Drink; FBK: Food bark; HCG: Hand-clasp groom; HNY: Honey;
 IGI: Intergroup interaction; LF: Leaf use; MAT: Attacked by monkeys; PIG: Pigs; PRED: Predation; PTG: Pant-grunt;
 RN: Rain; RD: Rain display; STK: Stick use; TLU: Tool use; UNF: Unusual food; Q: Other unusual events

KPC Behavior

DAY 16th MONTH APRIL YEAR 2009 OBSERVER KJ SM Found: C FT FFT N Other _____

Time	Party Composition				Loc	F	SP	PT	MNK	BEH CODE
	AMM	AFF (Include estrous)	JMM (Juveniles and Infants)	JFF						
										by touching on the estrous ST approached charged and made attack one on TG by a kick, TG avoided him casually screaming ES also avoided him silent then KK intervened making non vocal displays and buttress bungs ST and TG avoided casually and silent, TG made waars at ST.
1426										KK made non vocal displays and buttress bungs others made waars.
1427										ES TJ made vocal displays then ES made attack one on TJ by a slap, TJ fled waars barking and climbed a tree where EU was and made an indirect attack on EU by slaps and kicks, EU fled screaming and approached LK who touched her then EU made waars.
1429										LK made non vocal displays towards TG & TJ who fled pant barking climbing tree then LK continued displaying TG and TJ made waars.

AT 15-MINUTE INTERVALS: Party Composition, Location, Food, MNK ESTROUS: 1 = None, 2 = Partial, 3 = Full
 BEHAVIOR CODES (List all that you see - See reference sheet for required data):

- AP: Adult Play; CP: Copulation; CY: Carry; DR: Drink; FBK: Food bark; HCG: Hand-clasp groom; HNY: Honey;
- IGI: Intergroup interaction; LF: Leaf use; MAT: Attacked by monkeys; PIG: Pigs; PRED: Predation; PTG: Pant-grunt;
- RN: Rain; RD: Rain display; STK: Stick use; TLU: Tool use; UNF: Unusual food; Q: Other unusual events

KPC Behavior

DAY 16 MONTH APRIL YEAR 2009 OBSERVER KJSM Found: FT FFT N Other _____

Time	Party Composition				Loc	F	SP	PT	MNK	BEH CODE
	AMM	AFF (Include estrous)	JMM (Juveniles and Infants)	JFF						
1429	TG TS TT WL and AT				UWA					
1430	KK ST LK YB ES TS	TGWL AT LR	WEAV TT LO	NPEU TS	M 6	✓	UWA	RF	∅	
1431	KK ST and YB made joint vocal displays and buttress bungs ES joined them with vocal displays others made waars and pant barks.									
1432	KK LK ST YB	EU ES LR (L)			climbed back into ANI					
1445	KK ST LK YB ES TS	TGWL AT LR	WEAV TT LO	NPEU TS	M 8	✓	ANI UWA	RF	∅	
1500	KK ST LK YB ES TS	TGWL AT LR	WEAV TT LO	NPEU TS)	✓))	∅	
1515	KK ST LK YB ES TS	TGWL AT LR	WEAV TT LO	NPEU TS)	✓	ANI	RF	∅	
1520	KK and LK coming down from the feeding tree followed by ST LR (L)									
1526	ES EU YB coming down from ANI last.									
1527	LK grooming ST.									
1528	YB feeding on ANT YL.									
1530	KK ST LK YB ES TS	TGWL AT LR	WEAV TT LO	NPEU TS	M 8				∅	
1531	ES grooming EU.									
1532	Leaf groom by ES for 20 sec. he was grooming EU before and did the same after.									

AT 15-MINUTE INTERVALS: Party Composition, Location, Food, MNK ESTROUS: 1 = None, 2 = Partial, 3 = Full

BEHAVIOR CODES (List all that you see - See reference sheet for required data):

- AP: Adult Play; CP: Copulation; CY: Carry; DR: Drink; FBK: Food bark; HCG: Hand-clasp groom; HNY: Honey; IGI: Intergroup interaction; LF: Leaf use; MAT: Attacked by monkeys; PIG: Pigs; PRED: Predation; PTG: Pant-grunt; RN: Rain; RD: Rain display; STK: Stick use; TLU: Tool use; UNF: Unusual food; Q: Other unusual events

KPC Behavior

ou, OT2

DAY 16 MONTH APRIL YEAR 2009 OBSERVER KJSM Found: FT FFT N Other _____

Time	Party Composition				Loc	F	SP	PT	MNK	BEH CODE
	AMM	AFF (Include estrous)	JMM (Juveniles and Infants)	JFF						
1535	Eu grooming her self.									
1537	Eu playing with Lo by touching and beating one another.									
1540	Lo playing alone by swinging.									
1542	Lo playing with LK by touching him									AP
1545	KK LK ST UB ES	LR WT OTTG	Lowc OTTG	EU MP TS	N/8		ANT	YL	Ø	
1546	LK grooming ST.									
	chain groom LK → ST → YB.									
1547	LR grooming KK.									
1553	Hand clasp mutual groom LK ↔ KK									HCG
1554	KK grooming LK after hand clasp.									
	ST grooming YB.									
1555	Eu grooming ES. KK feeding on CAF YL.									
1558	ou family joined the party, ou made <u>pant grunts</u> to LK YB and ST who ignored him.									
1600	KK LK ST UB ES	LR WT OTTG	OG LO WCOV TT	OT OM TS OL NP	N/8		CAF	YL	Ø	
1603	ou grooming OG									
1604	om grooming LK as OT plays with eu.									

AT 15-MINUTE INTERVALS: Party Composition, Location, Food, MNK ESTROUS: 1 = None, 2 = Partial, 3 = Full
 BEHAVIOR CODES (List all that you see - See reference sheet for required data):

- AP: Adult Play; CP: Copulation; CY: Carry; DR: Drink; FBK: Food bark; HCG: Hand-clasp groom; HNY: Honey;
- IGI: Intergroup interaction; LF: Leaf use; MAT: Attacked by monkeys; FIG: Pigs; PRED: Predation; PTG: Pant-grunt;
- RN: Rain; RD: Rain display; STK: Stick use; TLU: Tool use; UNF: Unusual food; Q: Other unusual events

KPC Behavior

DAY 16 MONTH APRIL YEAR 2009 OBSERVER KJS MFM Found: C FT FFT N Other _____

Time	Party Composition				Loc	F	SP	PT	MNK	BEH CODE
	AMM	AFF (Include estrous)	JMM (Juveniles and Infants)	JFF						
1611	OG grooming LK									
1615	KK ST LK ^{JB} ES	OU LR WL ^{OT} TG	OG LO WL ^{OT} TT	OTOM OL TS	N 8				∅	
1629	om grooming ou									
1630	KK ST LK ^{JB} ES	OU LR WL ^{OT} TG	OG LO WL ^{OT} TT	OTOM OL TS	N 8				∅	
1630	ou made <u>wear barks</u> to ou then es made non vocal displays WL & ot made <u>part barks</u> .									
1630	ou approached YB <u>part grunting</u> and groomed. ^{PTG}									
1639	BPM feeding on TR YL									
1640	ot grooming YB									
1643	KK inspecting TG by smelling on the estrous.									
1645	KK ST LK ^{JB} ES TJ	TG WL OT LR OU	OG LO WL ^{OT} TT	NPTS OTOM OL	N 8				∅	
1652	chimps entered into THV and started feeding.									
1700	KK ST LK ^{JB} ES TJ	TG WL OT LR OU	OG LO WL ^{OT} TT	NPTS OTOM OL	21 KRD	THV	THV		∅	
1710	Some one was <u>chased</u> in a poor view and fled screaming others did not respond.									
1715	KK ST LK ^{JB} ES TJ	TG WL OT LR OU	OG LO WL ^{OT} TT	NPTS OTOM OL	21 BEP	THV	THV		∅	
1720	WL feeding on FCP RF.									
1725	WL coming down from FCP.									
1727	chimps coming out of THV KK ST YB TJ ES OU LK NP									

AT 15-MINUTE INTERVALS: Party Composition, Location, Food, MNK ESTROUS: 1 = None, 2 = Partial, 3 = Full
 BEHAVIOR CODES (List all that you see - See reference sheet for required data):

AP: Adult Play; CP: Copulation; CY: Carry; DR: Drink; FBK: Food bark; HCG: Hand-clasp groom; HNY: Honey;
 IGI: Intergroup interaction; LF: Leaf use; MAT: Attacked by monkeys; PIG: Pigs; PRED: Predation; PTG: Pant-grunt;
 RN: Rain; RD: Rain display; STK: Stick use; TLU: Tool use; UNF: Unusual food; Q: Other unusual events

and TG family went missing.

KPC Behavior

DAY 16th MONTH APRIL YEAR 2009 OBSERVER KJSMFM Found: C FT FFT N Other _____

Time	Party Composition				Loc	F	SP	PT	MNK	BEH CODE
	AMM	AFF (Include estrous)	JMM (Juveniles and Infants)	JFF						
1730	WK	WL@T OU LR	WE@V OG LO	OTOM DL	H 21 GLT					φ
1731	WL @W and @T @V climbed into mms at H/21 and started feeding on RF									
1745		WL@T OU LR	WE@V OG LO	OTOM DL	H 21	✓	MMS	RF		φ
1750	OU @D OT OM and OG also climbed into the feeding tree (mms).									
1800		WL@T OU LR	WE@V OG LO	OTOM LO	H 21	✓	MMS	RF		
1813	@T @V coming down from the feeding tree.									
1815		WL@T OU LR	WE@V OG LO	OTOM LO	H 21	✓	MMS	RF		RDC
1816	All chimps left the feeding tree (mms).									
1820	LR started making a night nest in an area of about 30 cm dbh at 12 metres high.									
1824	WL started making a night nest in a tree of about 22 cm dbh at 10 metres high.									
1830		WL@T OU LR	WE@V OG LO	OTOM DL	H 19					RDC
1845		WL@T OU LR	WE@V OG LO	OTOM DL	H					RDC
1847	@S leaving the nesting site.									

AT 15-MINUTE INTERVALS: Party Composition, Location, Food, MNK ESTROUS: 1 = None, 2 = Partial, 3 = Full

BEHAVIOR CODES (List all that you see - See reference sheet for required data):

- AP: Adult Play; CP: Copulation; CY: Carry; DR: Drink; FBK: Food bark; HCG: Hand-clasp groom; HNY: Honey;
- IGI: Intergroup interaction; LF: Leaf use; MAT: Attacked by monkeys; PIG: Pigs; PRED: Predation; PTG: Pant-grunt;
- RN: Rain; RD: Rain display; STK: Stick use; TLU: Tool use; UNF: Unusual food; Q: Other unusual events